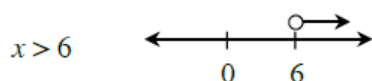
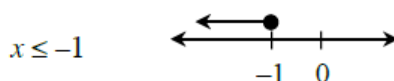
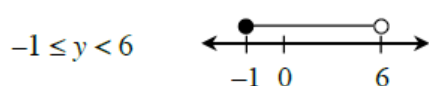
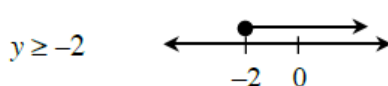


GRAPHING AND SOLVING INEQUALITIES**6.1.3 – 6.1.4****GRAPHING INEQUALITIES**

The solutions to an equation can be represented as a point (or points) on the number line. If the expression comparison mat has a range of solutions, the solution is expressed as an inequality represented by a ray or segment with solid or open endpoints. Solid endpoints indicate that the endpoint is included in the solution (\leq or \geq), while the open dot indicates that it is not part of the solution ($<$ or $>$).

Example 1**Example 2****Example 3****Example 4**

Make a separate number line for EACH expression. Be sure to use a ruler.

Problems

Graph each inequality on a number line.

1. $m < 2$

2. $x \leq -1$

3. $y \geq 3$

4. $-1 \leq x \leq 3$

5. $-6 < x < -2$

6. $-1 < x \leq 2$

7. $m > -9$

8. $x \neq 1$

9. $x \leq 3$